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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/805,214	03/22/2004	Tsuyoshi Nakamura	Q80608	9125
23373	7590 07/27/2006		EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			GREENHUT, CHARLES N	
			ART UNIT	PAPER NUMBER
WASHINGT	WASHINGTON, DC 20037			
			DATE MAILED: 07/27/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Astism Comment	10/805,214	NAKAMURA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Charles N. Greenhut	3652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 5/9/0	06 <u>&amp; 4/21/06</u> .				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	This action is <b>FINAL</b> . 2b) This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
<ul> <li>4)  Claim(s) 1-9 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-9 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acc	cepted or b) objected to by the I	Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal F  6) Other:				

## l. Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 1. Claim(s) 1-3, and 8-9 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over SELYUTIN (US 6,120,609 A) in view of POLLOCK (US 4,726,689 A).
  - 1.1. With respect to claim 1, SELYUTIN discloses a casing (38), table (22), connecting portion (32), moving portion (Fig. 10-15), base (34), adjusting support (239) and seal (Col. 1 Li. 64-67). SELYUTIN fails to disclose a differential pumping seal. POLLOCK teaches a differential pumping seal is known in the art (Col 1. Li. 16 et seq.). It would have been obvious to one of ordinary skill in the art to modify SELYUTIN with the differential pumping seal of POLLOCK in order to provide low friction, low particulates, low noise, and high stiffness guidance to a substrate support shaft while maintaining a high differential pressure between the evacuated process chamber and the ambient environment which surrounds it.
  - 1.2. With respect to claim 2, SELYUTIN additionally discloses the casing and base placed on a surface plate (230).
  - 1.3. With respect to claim 3, SELYUTIN additionally discloses supporting the base at three points or more (Fig. 19).
  - 1.4. With respect to claim 8, SELYUTIN additionally discloses a seal plate (110), O-ring (52) and bellows (48).

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1.5. With respect to claim 9, SELYUTIN additionally discloses a drive unit (Col. 2 Li. 4).

2. Claim(s) 4, and 6-7 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over

SELYUTIN in view of POLLOCK and further in view of KOBAYASHI (US 5,073,912 A).

2.1. With respect to claim 4, SELYUTIN teaches only one adjusting portion.

KOBAYASHI teaches a fine (3) and coarse (2) adjusting portion. It would have been

obvious to one of ordinary skill in the art to modify SELYUTIN with the fine and

coarse adjusting portions of KOBAYASHI in order to allow both efficient and

accurate positional adjustments.

2.2. With respect to claim 6, SELYUTIN does not specify the type of drive source used.

Electric drives are well known in the art, for example, KOBAYASHI teaches an

electric drive (603). It would have been obvious to one of ordinary skill in the art to

modify SELYUTIN with the electric drive KOBAYASHI in order to actuation the

adjusting mechanisms.

2.3. With respect to claim 7, SELYUTIN additionally discloses a suppress means (240).

3. Claim(s) 5 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over SELYUTIN in

view of POLLOCK and further in view of MCDONALD (US 2,908,472 A)

3.1. With respect to claim 5, SELYUTIN does not specify the type of drive source used.

Hydraulic drives are well known in the art, for example, MCDONALD teaches a

hydraulic drive source (Fig. 1). It would have been obvious to one of ordinary skill in

the art to modify SELYUTIN with the hydraulic drive of MCDONALD in order to

actuate the adjusting mechanisms.

II. Response to Applicant's Arguments

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Applicant's arguments entered 4/21/06 & 5/9/06 have been fully considered.

- 1. Applicant argues that the term "surface plate" is sufficiently definite to comply with 35 USC 112 2<sup>nd</sup> paragraph. This argument is persuasive and the rejection under 35 USC 112 2<sup>nd</sup> paragraph is withdrawn and a "surface plate" is deemed to define a thing having a flat surface.
- 2. Applicant argues that claim 1, as amended, is not anticipated by SELYUTIN because the positioning device of claim 1 allows horizontal movement. This argument is not persuasive. The features upon which applicant relies (i.e., horizontal movement) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims.
- 3. Applicant argues that claim 1, as amended, is not anticipated by SELYUTIN because SELYUTIN fails to teach a moving portion. This argument is not persuasive. The "lift mechanism" of SELYUTIN which is comprised of various elements, can be considered a "moving portion" for purposes of claim 1, within the broadest reasonable interpretation of that term since it is clearly seen moving (cf. Fig. 10-15).
- 4. Applicant argues that claim 1, as amended, is not anticipated by SELYUTIN because SELYUTIN fails to teach a adjusting support. This argument is not persuasive. SELYUTIN teaches an "adjusting support" (239) within the broadest reasonable interpretation of that term. Applicant further argues that claim 1, as amended, is not anticipated by SELYUTIN because SELYUTIN fails to teach the adjusting support causing the relative displacement to hold the clearance between the base and casing constant. This argument is not persuasive. A recitation of the intended use of the claimed invention must result in a structural difference

between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In SELYUTIN, for example, if the lower portion of the casing (38) were distorted due to pressure differential, the adjusting support (239) could be employed to maintain the desired clearance between the base (34) and the casing (38). Since the adjusting support (239) is capable of performing this function, it meets the limitations of the claim. Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims.

5. Applicant argues that claim 1, as amended, is not anticipated by SELYUTIN because SELYUTIN fails to teach a work drive. This argument is not persuasive. The features upon which applicant relies (i.e., a work drive) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. Assuming applicant is referring to the drive unit as claimed in claim 9, SELYUTIN discusses but does not show that the moving portion is connected to a drive unit (Col. 2 Li. 4).

## III. Conclusion

- 1. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- 2. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will

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expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Charles N. Greenhut whose telephone number is (571) 272-1517. The

examiner can normally be reached on 7:30am - 4:00pm EST.

4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Eileen D. Lillis can be reached on (571) 272-6928. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information

for unpublished applications is available through Private PAIR only. For more information

about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access

to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free).

CG

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